

# Algorithm for Detecting Polarity of Opinions in University Students Comments on Their Teachers Performance

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## Abstract

Sentiment analysis is a text classification task within the area of natural language processing whose objective is to detect the polarity (positive, negative or neutral) of an opinion given by a certain user. Knowing the opinion that a person has toward a product or service is of great help for decision making, since it allows, among other things, potential consumers to verify the quality of the product or service before using it. This paper presents the results obtained from the automatic identification of the polarity of comments emitted by university students in a survey corresponding to the performance of their professors. In order to carry out the identification of the polarity of comments, a technique based on automatic learning is used, which initially makes a manual labeling of the comments and then these results allow to feed different learning algorithms in order to create the classification models that will be used to automatically label new comments, and thus determine their polarity as positive or negative.

## Palabras clave

Analysis of polarity, Opinion mining, Supervised classification